(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 30 October 2003 (30.10.2003)

PCT

(10) International Publication Number WO 03/089265 A1

(51) International Patent Classification⁷: B60N 2/06, 2/075, 2/46, B60R 7/04, B62D 27/06, 65/00, B60N 2/28

(21) International Application Number: PCT/US02/12562

(22) International Filing Date: 22 April 2002 (22.04.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): JOHN-SON CONTROLS TECHNOLOGY COMPANY [US/US]; 49200 Halyard Drive, Plymouth, MI 48170 (US).

(72) Inventors; and

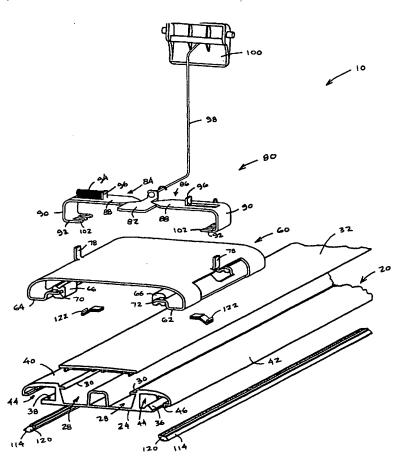
(75) Inventors/Applicants (for US only): BONNES, Keith, A. [US/US]; 7397 120th Avenue, Holland, MI 49424 (US). PHAM, Linh, H. [US/US]; 278 Haymarket Road, Holland,

MI 49423 (US). CLARK, Kenneth, M. [US/US]; 12961 Thistlewood Lane, Holland, MI 49424 (US). FLOWER-DAY, Craig, D. [US/US]; 3375 Crystal Valley Court, Holland, MI 49424 (US).

- (74) Agent: LAZARUS, John, M.; Foley & Lardner, 777 E. Wisconsin Avenue, 33rd Floor, Milwaukee, WI 53202-5367 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: ARTICLE ATTACHMENT SYSTEM



(57) Abstract: An article attachment system (10) for a vehicle is disclosed having an elongated rail member (20) adapted to attach to the vehicle where the rail member (20) defines at least one partially enclosed space with at least one slide interface and a plurality of projections, and a bracket (60) operably engaging the rail (20) and adapted for mounting at least one article (12), and a positioning device (80) operably engaging the bracket (60) and having at least one extension adapted to move between an engaged position adapted for securing the article (12) to the rail (20) and a released position adapted for moving the article (12) relative to the rail (20).

WO 03/089265 A1





European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report





A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60N2/06 B60N2/075 B62D65/00

B60N2/28

B60N2/46

B60R7/04

B62D27/06

According to International Patent Classification (IPC) or to both national classification and IPC

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B60N B60R B62D B60H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the re-	elevant passages	Relevant to claim No.
х	EP 0 117 131 A (HOCKLEY DESIGN S 29 August 1984 (1984-08-29)	ERVICES)	32,40, 42,44, 46,48,
A	page 5, line 3 -page 7, line 35; 1-4	figures	50,51,53 1,2,5, 21,42,50
Α	EP 0 841 211 A (FORD NEW HOLLAND 13 May 1998 (1998-05-13) abstract; figures 7,8	NV)	1,21,32, 42,50
Α	WO 01 28807 A (MAGNA SEATING SYS ;NICOLA KIRK M (US); TAME OMAR D WEBER) 26 Apr11 2001 (2001-04-26 page 12, last paragraph -page 13 f1gures 4,15	(US);)	1,21,32, 42,50
X Furt	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.
"A" docum conside "E" earlier filing of "L" docum which citatio "O" docum other "P" docum	ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	"T" later document published after the interest or priority date and not in confilet with cited to understand the principle or the invention. "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the decannot be considered to involve an indocument is combined with one or ments, such combination being obvious the art. "&" document member of the same patents.	the application but early underlying the claimed invention to considered to cournent is taken alone claimed invention each the core other such docunus to a person skilled
	actual completion of the international search 4 October 2002	Date of mailing of the International se 22/10/2002	arch report
	mailing address of the ISA	Authorized officer	
MAINE SING	mailing actress of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	Petersson, M	



nations application No
PCT/US 02/12562

Category* Citation of document, with indication, where appropriate, of the relevant passages A US 6 203 088 B1 (FERNANDEZ CARLOS C ET AL) 20 March 2001 (2001-03-20) cited in the application column 2, line 49 -column 3, line 7; figures 3, 4, 7	C.(Continuation) DCCUMENTS CONSIDERED TO BE RELEVANT				
AL) 20 March 2001 (2001-03-20) cited in the application column 2, line 49 -column 3, line 7; figures 3,4,7	Category Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.			
	AL) 20 March 2001 (2001-03-20) cited in the application column 2, line 49 -column 3, line 7;	18,40			



ations	ofication No	
PCT/US	02/12562	

Patent documented in search		Publication date		Patent family member(s)	Publication date
EP 011713	1 A	29-08-1984	EP	0117131 A2	29-08-1984
	_		ES	529793 DO	01-02-1985
			ES	8502920 A1	01-05-1985
EP 084121	.1 A	13-05-1998	US	5924515 A	20-07-1999
LI 004121		10 00 1000	DE	69709834 D1	28-02-2002
			DE	69709834 T2	12-09-2002
			DE	69714945 D1	02-10-2002
			EP	0841236 A2	13-05-1998
			ĒΡ	0842812 A2	20-05-1998
			ĒP	0841211 A2	13-05-1998
			EP	0842842 A2	20-05-1998
			EP	0841001 A1	13-05-1998
			US	5913566 A	22-06-1999
WO 012880		26-04-2001	 AU	2116301 A	30-04-2001
WO 01200	,, ,	20 0, 2002	EP	1222089 A1	17-07-2002
			WO	0128807 A1	26-04-2001
			ÜS	6322036 B1	27-11-2001
US 62030	38 B1	20-03-2001	NONE		